

August 19, 2003

APPLICATION FOR  
UNITED STATES UTILITY PATENT  
  
SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

Be it known that I, Paul B. McKee, a citizen of the United States of America, and resident of the State of Florida, having a postal address of 26 Dogwood Circle, Boynton Beach, Florida 33436-9145, have invented a new and useful toilet valve **"DUAL FLUSH ADAPTER"** of which the following forms the specification.

The U.S. Patent Department issued a disclosure document  
#532622 on 06-04-03

## **“DUAL FLUSH ADAPTER” – FOR TOILET VALVE**

### **CROSS REFERENCE TO RELATED APPLICATIONS**

See Pat. Appl. #10/614705 – 07-07-03

Filed by myself, Paul B. McKee, for a Dual Flush Valve patent on 06-30-03 using the same flush handles to be used on existing toilet tanks as shown in this patent application for a Dual Flush Valve. See Fig. 5 and 6.

### **STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT**

Not applicable.

### **REFERENCE TO MICROFICHE APPENDIX**

Not applicable.

### **BACKGROUND OF THE INVENTION**

Field of the Invention:

The present invention relates to the field of toilet devices, and more particularly to a dual flush toilet that conserves water.

Description of Related Art:

As can be seen by reference to the patent Nos. 5,067,180 – 5,111,537 – 5,887,292 and 6,173,456. The prior art is replete with myriad and diverse bathroom fixtures designed to conserve water.

Description of Related Art continued:

While all of the aforementioned prior art constructions are more than adequate for the basic purpose and function for which they have been specifically designed, they are uniformly deficient with respect to their failure to provide a simple, efficient and practical toilet that effectively conserves water. My "FLUSH VALVE ADAPTOR" will correct all of these deficiencies. As a consequence of the foregoing situation, there has existed a longstanding need for a new and improved "DUAL FLUSH TOILET ADAPTER" and the provision of such a construction is a stated objective of the present invention.

p4 : claim

## BRIEF SUMMARY OF THE SEVERAL VIEWS OF THE DRAWINGS

FIG. 1 is a top plan view of the flush valve adapter.

FIG. 2 is a front elevation sectional view of the flush valve adapter when it is used with the existing flush valve or built into a new flush tank.

FIG. 3 shows a 2x size view of the flush handles on the exterior of the existing tank.

FIG. 4 shows full scale view of flush handle levers on the interior of the existing tank.

Note:

For FIG. 3 and FIG. 4

In new tank construction a second handle hole is opened in the wall of the new tank, then standard commercial flush handles and levers may be used thereby eliminating DET's 15 thru 27 in figures 3 and 4.

## BRIEF SUMMARY OF THE INVENTION

As can be seen by reference to the drawings and in particular to FIG. 1 and FIG. 2 the flush valve adapter that forms the basis of the present invention is designated generally by the reference FIG. 1 and FIG. 2.

The float 1 (and 2 which threads 1) and can be moved up or down to provide float adjustment to desired setting for float 3.

Chain 12 attaches to lever 24 and latch 9 and flap 14. Disc 5 (2 req.) thread onto 2. Use one disc 5 to push down flap 14 if needed. Float 3 and 4 are cemented together. 7 is secured to existing flush valve 13 by screw 10. Pin 8 (2 req.) is pressed into 7 and slips into 9 which in turn slips into 7. 11 (scr.) is used to attach 12 to 9. Chain 27 attaches to 14 and 25.

The existing flush tank has a water supply inlet that provides water to the existing toilet tank and float shut-off valve 13.

As best shown in FIG. 3, this 2x size view shows handles on exterior of existing tank. See 15 thru 21 in FIG. 3.

As best shown in FIG. 4 the levers are installed thru the existing square hole in the existing wall from the exterior to the interior of existing tank. See 22 thru 27 in FIG. 4.

See note for FIG. 3 and FIG. 4 on page 5 of Brief Summary.

Although only an exemplary embodiment of the invention has been described in detail above, those skilled in the art will readily appreciate that many modifications are possible without materially departing from the novel teachings and advantages of this invention accordingly, all such modifications are intended to be included within the scope of this invention as defined in the following claims.

## BRIEF SUMMARY CONTINUED

The float **3** moves with the water flow to close flap **14** to provide a partial flush when handle **15** and lever **24** are activated.

When the existing fill valve re-opens to provide water to replace the water used in the partial flush the float valve **3** will rise until the float **3** and **4** locks itself in place under latch **9**. Float **3** rises on **13** against **1**.

When a full flush is required and the handle **16** and lever **25** is activated and the float valve **3** is locked in place by **9** and can not be released until the partial flush handle **15** is activated.

The present invention provides a flush toilet valve adapter within a flush tank. The valve flap **14** works independently with the required flush handle.

The discharge opening is in communication with the flush tank outlet and the inlet opening of the toilet bowl.

Two operator handles are provided for the separate flush choices (full or partial) so that the appropriate flush valve flap **14** can be selectively opened to dispose of waste material.

The partial flush float **3** will conserve many gallons of water each day and result in significant savings. This design may be adapted to existing toilet tanks or can be provided as original equipment.